Lc743 RM8con		N			v		L		· .									1	-	N	20
Lc743 RM8A RM8B RM8C RM8Con		AAT L	TTC.	AAC(3/5	, 	AGT	TTG	ATG	<u>3A</u> G/	AAA	TTA	AAA 	TGG	AAG.	ATT	AAA 	TGC	ATT	GAA	AAT 	60
Lc743	K	F	-										V					Ε	Y	G	40
RM8con	٠	٠	٠	٠.	•	•	. + -		•	+		•		+	•	· 		·		.+	120
Lc743 RM8A RM8B RM8C RM8Con	AAG	TTT	TTA	AAC	TAT	CGT	TTA	ACT.	ACC.	AAT	GAA	ACG	GTG	GTA	GCT	GAA	ACT	GAA	TAT	GGC	
Lc743	К	v	K	G	v	K	R	L	т	v	Y	D	D	s	Y	Y	s	F	Ε	G	60
DMGcon																					
121 Lc743	AAA	GTG	AAA	+ GGC	GTT.	AAA	-+- CGT	TTA	ACT	+ GTG	TAC	GAT	GAT	TCC	TAC	TAC	AGT	TTT	GAG	GGT	180
RM8A																					
RM8B						٠					٠	٠.,		• • •	٠	• • •	• • •	٠			
RM8C					• • •	• • •	• • •	• • •	• • •	• • •	٠					• • •					
RM8con			• • •			• • •					• • •		• • •				• • •				
Lc743	т	P	Y	Α	0	P	P	v	G	E	L	R	F	K	Α	P	Q	R	P	T	80
PMacon																					
				+			-+-			+				+			-+-			ACA	240
Lc743	ATA	CCC	TAC	GCC	CAA	.CCG	CCA	GTG	GGT	GAG	CTG	AGP	TTT	AAA	160£	1000	CAC	,,,,,,	1COP	ACA	
RM8A RM8B					• • •																
RM8C						• • •															
RM8con																					
Lc743	Р	W	D	G	v	R	D	С	С	N	Н	K	D	K	s	v	Q	v	Đ	F	100
RM8con																٠	٠	٠	٠	٠.	
				+																	300
Lc743	CCC	TG	GGA 1	rggī	GTG	CGI	GAT	TGI	TGC	AA'I	CA	AAA	AGA	AAG	, 1 G	1610	, CAA	101	LGA	TTT	
RM8A RM8B				. .	• • •						• • •	• • •									
RM8C	• • •	• • • •		. .																	
RM8con				 																	
.3.000.1	• • •																				

FIGURE 1

Lc743 RM8con 301 Lc743 RM8A RM8B RM8C RM8con	ATA.	ACG		• • • • • • • •		 	GGC	TCA		GAT	TGT	CTA	TAC			GTC		ACG	AAT.	AAT	120 360
Lc743 RM8con 361 Lc743 RM8A RM8B RM8C RM8con	CTA			GAA/	ACTA	AAA	GT	ccc	GTT 	+ TTA	GTA	TAC	ATA	+ CAT	GGT	GGT	-+- GGT		ATT.	ATC	140 420
Lc743 RM8con 421 Lc743 RM8A RM8B RM8C RM8con	GGT		AAT(CATO	GT	GAT.	ATG	TAT	GGT	CCT	GAT	TAT	TTC	+ ATT	AAA	AAG	-+- GAT	GTG	GTG		160 480
Lc743 RM8con 481 Lc743 RM8A RM8B RM8C RM8con	ATT		ATA	CAA1	TAT(GT	TTG	GGA	GCT	CTA		TTT	CTA	+ AGT	TTA	AAT'	TCA	GAA	GAC	CTT	180 540
Lc743 RM8con 541 Lc743 RM8A RM8B RM8C RM8con	AAT 					GCC	GGC	CTT	AAA	GAT	CAA	GTC	ATG	GCC	TTG	 	-+- TGG				200 600

Figure 1 continued

Lc743 RM8con 601 Lc743 RM8A RM8B RM8C RM8con	AAT	TGC	GCC	+ AAC	TTT	GGT	GGC	AAT	ccc	GAT	TAA'	ATT	TACA	GTC	TTI	GG1	+ -? GA/	AGI		GGT	220 660
Lc743 RM8con 661 Lc743 RM8A RM8B RM8C RM8C	GCT	GCC	TCT	ACC	CAC	TAC	ATG	ATG	TTA	ACC	GAA	CAA	ACT	+ CGC	GGT	CTT	TTC	CAT		GGT	
Lc743 RM8con 721 Lc743 RM8A RM8B RM8C RM8C	ATA	CTA.	ATG	rcg	GGT	AAT	GCT	ATT	TGT	CCA	TGG	GCT	AAT	+ ACC	CAA	TGT	-+- CAA	CAT	CGT	+ 3CC	
Lc743 RM8con 781 Lc743 RM8A RM8B RM8C RM8Con		ACC	TTAC	# GCC.	AAA	rtg	-+- GCC	GGC	TAT.	+ AAG	GGT	GAG	GAT	AAT	GAT.	AAG	GAT	GTT	TTG	GAA	280 840
RM8A		OTTA	ATGA	AAA	GCA	AAG	-+- CCA	CAG	GAT	TTA	ATA	AAA	CTT	GAG	GAA.	AAA	-+- GTT 	TTA	ACTO	TA	300 900

Figure 1 continued

Lc743 RM8con	E	E	R	T	N	K	v						P			E		Y	Q	T	320
901 Lc743 RM8A RM8B RM8C RM8C	GAA			ACA				ATG'	TTT	CT	TTT	GGT ···	ccc.		GTT	GAG	CCA	 	CAG	 	960
Lc743 RM8con 961 Lc743 RM8A RM8B RM8C RM8con		GAT	TGT	+	TTAC	CCCA	AAAG	CATO	CTC	GGG	GAA	ATG	GTT	 AAA.	ACT	GCT	-+- TGG	GGT.	AAT	TCG	340 1020
Lc743 RM8con 1021 Lc743 RM8A RM8B RM8C RM8con	ATA	ccc	ACT	ATG2	ATGG	GTA	ACA	CTI	CAT	ATO	AGG	GGT	CTA	t	TTC	ACT	TCA	ATT	OTT.	+ 1 AAG 	
Lc743 RM8con 1081 Lc743 RM8A RM8B RM8C RM8Con		ATG	CCTA	ATG	TTG	TTA	AGG	AAT	TGG	-+- AAA	CT	rgro	TC/	AATT	TTT	STGO	CGA/	AGTO	GAA'	· +] rTG	380
Lc743 RM8con 1141 Lc743 RM8A RM8B RM8C RM8Con		GATO	GCTC	GAAG	GCA	CCG		CAG	AGA	CCT	TGO	GAA/	TGG	GTO	GCTA	AA/	TTA	AAA/	AAGO	+1 GCT	400 200

Figure 1 continued

Lc743	Н	V	Т	G	E	T	P	T			N	F			L	С	s	Н	I	Y	420
RM8con 1201		· 		+			+-			+							-+-				1260
Lc743 RM8A RM8B RM8C			ACA	· · ·	• • •															: : :	
RM8con	• • •		• • •	• • •	• • •	• • •					• • •	• • •	• • •	• • •		• • •					
Lc743 RM8con	F		F	P .		H							F		H	_	-	_	-	P	440
1261 Lc743	TTC																				1320
RM8A RM8B																					
RM8C RM8con																	٠				
14100011																					
Lc743 RM8con	٧.	-	L	-												P			_		460
1321 Lc743							+			+				+			-+-				1380
RM8A RM8B								с						с							
RM8C RM8con								с						с							
Lc743 RM8con	R	s	G		G			-		-			D	-		T				W	480
1381 Lc743	CGTA		1	٠			+			+				+			-+-				1440
RM8A RM8B																					
RM8C RM8con																					
Lc743 RM8con		·								-			E							M •	500
1441 Lc743	AATO	CAA	rtge	CCA	AAC	GTA	TGC	CTA	AAA	GAA	TCG	CGT	GAA'	rac.	AAA	ACA	ATT	GAA	CGT	ATG	1500
RM8A RM8B																					
RM8C RM8con																					

Figure 1 continued

· Lc743 RM8con	T .	G	I	W	ı	Q ·	F		T	-	G	N	₽.	Y	s	N	E	I	E	G	520
1501 Lc743 RM8A RM8B RM8C RM8con	ACT												CCT					AT	GAA	GGT	1560
Lc743 RM8con 1561 Lc743 RM8A RM8B RM8C RM8con	ATG		AAT	GTT	TCC	TGG	GAT	CCA.	ATT	AAG	AAA	TCC	GAC	GAA	GTA	TAC	-+- AAG	TGT	TTG	AAT	540 1620
Lc743 RM8con 1621 Lc743 RM8A RM8B RM8C RM8con	ATT	AGT	GAC T T	+ GAA	TTG	AAA	-+- ATG	ATT	GAT	+ GTG	GCT	GAA.	M ATG	GAT	AAG	ATT.	-+- AAA	CAA	TGG	GAA G G	560 1680
Lc743 RM8con 1681 Lc743 RM8A RM8B RM8B	TCG	AT <u>G</u>	TTT	+ GAA 		CAT.	-+- AGA 743	GAT' /3'	TTA	TTT	TAG	5 17	70 13								

Figure 1 continued

gu		

MdαE7 1	MTFLKQFIFRLKLCVKCMVNKYTNYRLSTNETQIIDTEYGQIKGVKRMTV	50
LcaE7 1	. ::: :: : : . :: :: MNFNVSLMEKLKWKIKCIENKFLNYRLTTNETVVAETEYGKVKGVKRLTV	50
51	YDDSYYSFESIPYAKPPVGELRFKAPQRPVPWEGVRDCGGPANRSVQTDF	100
51	YDDSYYSFEGIPYAQPPVGELRFKAPQRPTPWDGVRDCCNHKDKSVQVDF	100
101	ISGKPTGSEDCLYLNVYTNDLNPDKRRPVMVFIHGGDFIFGEANRNWFGP	150
101	ITGKVCGSEDCLYLSVYTNNLNPETKRPVLVYIHGGGFIIGENHRDMYGP	150
151	DYFMKKPVVLVTVQYRLGVLGFLSLKSENLNVPGNAGLKDQVMALRWVKS	200
151	DYFIKKDVVLINIQYRLGALGFLSLNSEDLNVPGNAGLKDQVMALRWIKN	200
	NIAIFGGDVDNITVFGESAGGASTHYMMITEQTRGLFHRGIMMSGNSMCS	
	NCANFGGNPDNITVFGESAGAASTHYMMLTEQTRGLFHRGILMSGNAICP	
	WASTECQSRALTMAKRVGYKGEDNEKDILEFLMKANPYDLIKEEPQVLTP	300
	WANTQCQHRAFTLAKLAGYKGEDNDKDVLEFLMKAKPQDLIKLEEKVLIL	300
	ERMQNKVMFPFGPTVEPYQTADCVVPKPIREMVKSAWGNSIPTLIGNTSY	
	EERTNKVMFPFGPTVEPYQTADCVLPKHPREMVKTAWGNSIPTMMGNTSY	
	EGLLSKSVAKQYPEVVKELESCVNYVPWELADSERSAPETLERAAIVKKA	
	EGLFFTSILKQMPMLVKELETCVNFVPSELADAERTAPETLEMGARIKKA	
	HVDGETPTLDNFMELCSYFYFLFPMHRFLQLRFNHTAGTPIYLYRFDFDS	
	HVTGETPTADNFMDLCSHIYFWFPMHRLLQLRFNHTSGTPVYLYRFDFDS	450
	EEIINPYRIMRFGRGVKGVSHADELTYLFWNILSKRLPKESREYKTIERM	
	EDLINPYRIMRSGRGVKGVSHADELTYFFWNQLAKKMPKLSKEIKIIEKM	
	VGIWTEFATTGKPYSNDIACMENLTWDPIKKSDDVYKCLNIGDELKVMDL	
	TGIWIQFATTGNPYSNEIEGMENVSWDPIKKSDEVYKCLNISDELKMIDV	000
	PEMDKIKQGASIFDKKKELF 570 - : : -::	
551	PEMDKIKOWESMFEKHRDLF 570	

Figure 3.

1																				TCA	AT -+ 60
*	TA	CTG	AAA	AGA	CTI	rcg:	LTA.	AGT	ATA.	AAG	CGG.	ACT	TTG.	ATA	CGA	AAT	TTA	.CG1	ACC	AGT	TA
	М	T	F	L	K	Q	F	I	F	R	L	K	L	С	F	K	C	·	í V	N	-
	AA	ATA	CAC	AAA	CTA	ACC(GTC:	TGA	GTA	CAA	ATG	AAA	ccc.	AAA	TAA	TCG	ATA	CTO	AAT	ATG	GA -+ 120
61	TT	TAT	GTG	TTT	GA?	rgg	CAG	ACT	CAT	GTT'	rac'	TTT	GGG	TTT	ATT	AGC	TAT	GAC	TTA	TAC	CT
	K	Y	Т	N	Y	R	L	S	T	N	E	Т	Q	I	I	D	Т	·	Y Y	G	-
121				-+-				+			-+-			+				+		AGA	-+ 180
																Y				TCT	on.
	Q	Ι				K			-	V			_	-					_	-	
181				-+-				+			-+-			+				+		CTG	-+ 240
	TA	TGC	GAT	ACG	AT:	rcg	GAG	GTC.	ACC	CAC'	TCA.	ACT								GAC	AT
	Ι	P	Y	A	K	P	P	V	G	Ε	L	R	F	K	Α	P	Q	R	Р	V	-
241	CC	ATO	GGA	GGC	TG:	TAC	GTG.	ATT	GCT	GTG	GGC -+-	CAG	CCA	ACA	GAT	CGG	TAC	AGA +	CAG	ATT	TC -+ 300
	GG	TAC	cci	ccc	CAC	ATG	CAC	TAA	CGA	CAC	CCG	GTC	GGT	TGT	CTA	GCC	ATG	TCI	GTC	TAA	AG
	P	W	E	G	V	R	D	С	С	G	P	Α	N	R	s	V	Q	Т	D	F	-
201	ΑΊ	'AAC	TG	CA	AAC	CCA	CAG	GTT	CGG.	AG G	ATT	GTC	TAT	ACC	TGA	ATG	TGT	ATA	ACCA	ATG.	AC -+ 360
301	TA	TTC	CACC	GT:	TG	GGT	GTC	CAA	GCC	TCC	TAA	CAG	ATA	TGG	ACT	TAC	ACA	TAT	GGT	TAC	TG
	I	s	G	K	P	Ť	G	s	E	D	С	L	Y	L	N	v	Y	T	N	D	-
	TI	GA	ACC	CAG	ACA	AAA	GGC	GTC	CTG	TTA	TGG	TTT	TCA	TCC	ATG	GCG	GAG	AT:	TTA	TTT	TC
361	A.F	CTI	rggo	TC:	rgt	TTT	CCG	+ CAG	GAC	AAT.	-+- ACC	AAA	AGT	+ AGG	TAC	CGC	CTC	TAZ	AAA	`AAA	-+ 420 AG
	L	N	P	D	ĸ	R	R	P	v	М	v	F	I	H	G	G	D	F	I	F	-
421				+-				+			-+-			+				+		TCT	-+ 480
	_	T.		NT.	п	M	1.7		_	D	ъ	v	F	м	ĸ	ĸ	p	v	v	Ι.	_

GTAACCGTGCAATATCGTTTGGGTGTGTTGGGTTTCGTTAGCCTGAAATCGGAAA 31+	+ 540
V T V Q Y R L G V L G F L S L K S E N	L -
AATGTCCCCGGCAACGCTGGCCTCAAGGATCAAGTAATGGCCTTGAGATGGGTCA	AGAGT
TTACAGGGGCCGTTGCGACCGGAGTTCCTAGTTCATTACCGGAACTCTACCCAGT	TCTCA
N V P G N A G L K D Q V M A L R W V K	S -
AATATTGCCATTTTCGGTGGCGATGTAGACAATATTACCGTCTTCGGCGAAAGTG	+ 660
	-
GGGGCCTCAACCCATTACATGATGATAACCGAACAGACCCGTGGTTTATTCCATC	GTGGT + 720
CCCCGGAGTTGGGTAATGTACTACTATTGGCTTGTCTGGGCACCAAATAAGGTAG	CACCA
G A S T H Y M M I T E Q T R G L F H R	G -
ATCATGATGTCCGGTAATTCCATGTGCTCATGGGCCTCTACAGAATGCCAAAGTC	GTGCG
21+	+ 780
I M M S G N S M C S W A S T E C Q S	
CTCACCATGGCCAAACGTGTTGGCTATAAGGGAGAGACAATGAAAAAGATATCC	TGGAA
GAGTGGTACCGGTTTGCACAACCGATATTCCCTCTCTGTTACTTTTTCTATAGG	ACCTT
L T M A K R V G Y K G E D N E K D I L	
	E -
TTCCTAATGAAAGCCAATCCCTATGATTTGATCAAAGAGGAGCCACAAGTTTTGA	
TTCCTAATGAAAGCCAATCCCTATGATTTGATCAAAGAGGAGCCACAAGTTTTGA	CACCC
41 + + + + + + + + + + + + + + + + + + +	CACCC + 900 CGTGGG
41	CACCC + 900 CGTGGG
41	CACCC+ 900 CGTGGG P -
41 +- +- +- +- +- +- +- +- +- +- +- +-	CACCC CGTGGG P - CAGACA
41 + + + + + + + + + + + + + + + + + + +	CACCC CTGTGGG P - CAGACA CTCTGT
41 + + + + + + + + + + + + + + + + + + +	CACACCC+ 900 CAGAGG P - CAGACA+ 960 CTCTGT
41 + + + + + + + + + + + + + + + + + + +	AGACAC AGACAC T
AAGGATTACTTTCGGTTAGGGATACTAAACTAGTTTCTCCTCGGTGTTCAAAACTAGTTCTCCTCGGTGTTCAAAACTAGTTCTCCTCGGTGTCAAAACTAGTLCTCTTTTGGACCCACTAGAACCATACCAAACAATAGAAACAATAGAAAACAATAGAAAACAATAGAAAACAATAGAAAAACAATAGAAAAACAATAGAGAAAATGGTGAAGAGCGCCTTGGGGAAACCAATCAGAAAAAAGAAAATGGTGAAGAGCGCCCTGGGGAAACCAATCAGAAAAAAAA	AGACAC AGACAC T

Figure 3 continued

SUBSTITUTE SHEET (RULE 26)

102			CCA	CAT	TGA	TAG	GCA	ATA	сст	CCT	ACG	AAG	GTT	TGC	TTT	CCA	AAT	CAA +	T T G	CCAA	A + 1080
102.	T																			GGTI	
	Ι	P	T	L	I	G	N	T	S	Y	E	G	L	L	s	K	s	Ι	A	K	-
	С	AAT	ATC	CGG	AGG	TTG	TAA	AAG	AGT	TGG	AAT	CCT	GTG	TGA	ATT	ATG	TGC	CTT	GGG	AGT1	G + 1140
108.	L -	TTA	TAG	GCC	TCC	AAC	ATT	TTC	TCA	ACC	TTA	.GGA	CAC	ACT	TAA	TAC	ACG	GAA	ccc	TCAA	C
	Q	Y	P	E	٧	٧	K	E	L	E	s	С	v	N	Y	v	P	W	E	L	-
114	۱ -			+				+			-+-			+				+		AGGC TCCG	+ 1200
		D	s	E	R		A		E		L			Α			v		ĸ		-
	c	ATG	TGG	ATG	GGG	AAA	CAC	CTA	стс	TGG	АТА	ATT	TTA	TGG	AGC	TTT	GCT	CCT	ATT	TCTA	T
120	1 -			+				+			-+-			+				+		AGAT	+ 1260
		v				T	Р	т	L	D		F		E		С		Y	F	Y	-
	1	TCC	TCT	TCC	CCA	TGC	ATC	GCT	TCC	TAC	AAT	TGC	GCT	TCA	ACC	ACA	CAG	CTG	GCA	стсс	+ 1320
126.	Α.	AGG	AGA	AGG	GGT	ACG	TAG	CGA	AGG	ATG	TTA	ACG	CGA	AGT	TGG	TGT	GTC	GAC	CGT	GAGG	iG
	F	L	F	P	М	H	R	F	L	Q	L	R	F	N	Н	T	A	G	T	P	-
110	. A	TTT	ATI	TGT	ATC	GTT	TCG	ATT	TCG	ATT	CCG	AAG	AAA	TTA	TTA	ACC	CCT	ATC	GTA	TATT	G + 1380
132.																				AATA	
	I	Y	L	Y	R	F	D	F	D	S	E	Ε	I	I	N	P	Y	R	I	M	-
138	1 -			+				+			-+-			+				+		TCTC	+ 1440
	R	F	G	R	G	v	K	G	v	s	Н	A	D	Ε	L	T	Y	L	F	W	-
144	1 -			+				+			-+-			+				+		GCAT	+ 1500
	N	Ι	L	s	ĸ	R	L	P	ĸ	E	s	R	E	Y	ĸ	T	I	E	R	М	-
150		TTG	GCA	TTI	GGA	CGG	AAI	TCG	CCA	CCA	ccc	GCA	AAC	CAI	ACA	GCA	ATG	ATA	TAG	CCGC	C -+ 1560
120		CAAC	CG1	CAAA	CCI	GCC	TTA	AGC	GGT	GGT	GGC	CGI	TTG	GTA	TGI	CGI	TAC	TAT	ATC	GGCC	G
	٧	G	I	W	T	E	F	A	T	T	G	K	P	Y	s	N	D	I	A	G	-

Figure 3 continued

SUBSTITUTE SHEET (RULE 26)

1561				+				+			-+-			+				+		TAA.	-+ 162	2
	М	E	N	L	T	W	D	P	I	ĸ	ĸ	s	D	D	٧	Y	ĸ	С	L	N	-	
1621	-			+				+			-+-			+				+		GGGG	+ 168	\$
	I	G	D	E	L	K	٧	М	D	L	P	E	М	D	K	1	K	Q	W	A	-	
1681	-	GTAT		+-				+			-+	171	0									

Figure 3 continued

Figure 4..

MdaE7 97	QTDFISGKPTGSEDCLYLNVYTNDLNPDKKRPVMVFIHGGGFIFGEANRN	14
LcaE7 97	QVDFITGKVCGSEDCLYLSVYTNNLNPETKRPVLVYIHGGGFIIGENHRD	14
147	WYGPDYFMKKPVVLVTVQYRLGVLGFLSLKSENLNVPGNAGLKDQVMALR	19
147	MYGPDYFIKKDVVLINIQYRLGALGFLSLNSEDLNVPGNAGLKDQVMALR	19
197	WFKSNIAIFGGDVDNITVFGESAGGASTHYMMITEQTRGLFHRGIMMSGN	24
197	: . . :.	24
247	SMCSSASTECQSRALTMAKRVGYKGEENEKDILEFLMKANPYDLIKEEPQ	29
247	AICPLANTQCQHRAFTLAKLAGYKGEDNDKDVLEFLMKAKPQDLIKLEEK	29
297	VLTPERM 303	
207	WITIEFP 303	